

ABSTRACT

On-Board Power Generation System for a Guided Projectile

eliminates the need for batteries as a power source to power the guiding mechanism residing inside the projectile. Instead, an electrical generator and a wind-driven turbine to drive the generator are utilized to produce power. In this way, a small portion of the projectile's kinetic energy is converted into electrical energy. The power thusly produced is, then, coupled to the guiding means. The projectile is appropriately configured to accommodate therein the power generation system and air inlets and exhaust ports that are necessary to enable the system to operate.